TYRC

OAK RIDGE NATIONAL LABORATORY

OPERATED BY

UNION CARBIDE NUCLEAR COMPANY

UCC

POST OFFICE BOX Y

OAK RIDGE, TENNESSEE

June 26, 1961

Dr. Joshua Lederberg
Department of Human Genetics
Stanford Medical School
Palo Alto, California

Dear Josh:

I was much stimulated by your encouragement and comments, especially about wider applications of some of our techniques. The problem of separating reasonable quantities of DNA on the basis of either density alone or sedimentation rate could be approached if we could reach fields of $3\text{-}4 \times 10^5 \times g$. The problem is to demonstrate this possibility with our present device. Only after such a demonstration can the necessary support be obtained.

The performance tests on our Density Gradient Ultracentrifuge made after visiting with you were pleasing to say the least. The instrument is in Oak Ridge now ready to be assembled next week. This is a centrifuge with which much cream can be skimmed!

Are you doing any work with transforming DNA? If we can achieve a separation based on molecular weight, the problem of the smallest active piece could be approached.

With best regards,

Norm

Norman G. Anderson
Biology Division

NGA:mgh

Air Mail

AN DERSON, Norman

Yes, we have some evidence of fractionation in CsCl gradient.

J.